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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/911,829		07/25/2001	Tsuyoshi Tamura	110196	6319
25944 7590 06/14/2004			EXAMINER		
OLIFF & BERRIDGE, PLC				NGUYEN, KEVIN M	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
ALEXAND	KIA, V	4 22320		2674	20
				DATE MAILED: 06/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

09/911,829 TAMURA, TSUYOS	SHI					
Office Action Summary Examiner Art Unit						
Kevin M. Nguyen 2674						
The MAILING DATE of this communication appears on the cover sheet with the correspondence add. Period for Reply	ress					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM						
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to period by the set or extended period for reply with, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	nmunication.					
Status						
1)⊠ Responsive to communication(s) filed on <u>24 May 2004</u> .						
2a) This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the mei						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFF	R 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTC	• •					
Priority under 35 U.S.C. § 119						
<u> </u>						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	•					
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National S	itage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-1449)	152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-1449 or PTO/SB/08) Other:	106)					

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DETAILED ACTION

During the personal interview with the applicant's representative on May 19, 2004, the rejection of the previous Office action is hereby withdrawn. Applicant's the request for reconsideration filed on May 24, 2004 has been entered. However, the claims 1-26 have been rejected in view of the newly discovered reference(s) to Ohguchi (US 5,493,329). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1, 6, 21 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohguchi (newly cited) in view of Shimamoto (previously cited, US 6,147,672).
- 2. As to claim 1, Ohguchi teaches a memory-incorporated driver comprising:

 [recited in lines 3-4 of claim 1]

 a first port (a switch 22, fig. 3) through which a buffer memory for still pictures 42 (fig. 3),

 a second port (a switch 21, fig. 3) through which a buffer for moving pictures 41 (fig. 3),

 [recited in lines 8-9 of claim 1]

 buffer memory 43 and scanning conversion controller 70 are used in both moving

 picture converting section 3 and still picture converting section 4 (fig. 3, col. 3, lines 15
 17).

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[recited in lines 10-12 of claim 1]

a memory controller for carrying out picture write and picture read control of buffer memory 41, and a memory controller 32 for carrying out picture write and picture read control of buffer memory 42 (fig. 3, col. 3, lines 18-22). Thus, a first control circuit includes the memory controller 32 and the memory controller 31.

[recited in lines 13-15 of claim 1]

buffer memory 43 and scanning conversion controller 70 are used in both moving picture converting section 3 and still picture converting section 4 (fig. 3, col. 3, lines 15-17). Thus, a second control circuit include the memory controller 70.

Accordingly, Ohguchi teaches all of the claimed limitations except for a reception circuit which differentially amplifies the differential signal input from the second port and creates the moving image data in a parallel state.

However, Shimamoto teaches a LCD panel comprising a reception circuit (103) which differentially amplifies the differential signal input from the second port and creates the moving image data in a parallel state (see figure 10, column 8, lines 58-67).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify each Ohguchi's switch including the reception circuit (103) which differentially amplifies the differential signal input from the second port and creates the moving image data in a parallel state, in view of the teaching of Shimamoto's reference because this would prevent an influence of electric wave radiation on the ambience, improve a high resolution display mode, and reduce the number of interface signal lines as taught by Shimamoto (col. 2, lines 36-41).

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As to claim 6, Shimamoto teaches the serial transfer line is a transfer line in accordance with an LVDS standard (col. 3, lines 60-61).

As to claim 21, Shimamoto teaches column drivers (55, 57, fig. 3), row drivers (59, fig. 3).

As to claim 26, Ohguchi teaches CPU (col. 3, line 24).

3. Claims 11 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohguchi and Shimamoto, and further in view of Silverman et al (US 6,370,603).

As to claims 11 and 16, Ohguchi and Shimamoto teach all of the claimed limitations, except for the serial transfer line is a transfer line in accordance with a USB standard and an IEEE 1394 standard.

However, Silverman et al teaches the serial transfer line is a transfer line in accordance with a USB standard and an IEEE 1394 standard (column 8, lines 19-23).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify each Ohguchi's switch including the serial transfer line is a transfer line in accordance with a USB standard and an IEEE 1394 standard, in view of the teaching of Silverman's reference because this would provide an improved technique for effecting digital communications between digital devices and system using different communication protocols as taught by Silverman (column 4, lines 10-13).

4. Claims 2-5, 7-10 and 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohguchi and Shimamoto as applied to claim 1 above, and further in view of Chida (US 6,313,863).

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As to claim 2, Ohguchi and Shimamoto teach all of the claimed limitations of claim 1, except for a data validation signal generation circuit.

However, Chida teaches a halt control circuit (a system control unit 26, fig. 1). A validity table 26-1 manages validities of each image block designated by a validity designating unit 36. A special coded data table 26-2 manages a special coded image. A static image table 26-3 manages a static image. A validity designating unit 34 designates validities of each block of an image in accordance with instructions from the system control unit 26 that controls a control unit 34 based on the validity table 26-1(fig. 1, col. 4, lines 23-30).

Therefore, It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Shimamoto's reception circuit including a data validation signal generation circuit, in view of the teaching of Chida's reference because this would improve the quality of an image that is transmitted through a communication channel or line, and improve a quality image in an acceptable amount of time from a partner's terminal as taught by Chida (col. 2, lines 40-45).

As to claims 3-5, Chida teaches when the receiving side displays only the valid area, the system control unit 26 of the receiving side controls the synthesizing/ processing unit 125 so that unit 125 extracts a part of the image stored in the receiving video RAM 121 based on the validity information of the blocks (fig. 11a, col. 9, lines 48-52).

As to claims 7-10, Shimamoto teaches the serial transfer line is a transfer line in accordance with an LVDS standard (col. 3, lines 60-61).

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As to claims 22-25, Shimamoto teaches column drivers (55, 57, fig. 3), row drivers (59, fig. 3).

5. <u>Claims 12-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over</u>

<u>Ohguchi and Shimamoto, and further in view of Silverman et al.</u>

As to claims 12-20, Ohguchi and Shimamoto teach all of the claimed limitations except for the serial transfer line is a transfer line in accordance with a USB standard and an IEEE 1394 standard.

However, Silverman et al teaches the serial transfer line is a transfer line in accordance with a USB standard and an IEEE 1394 standard (column 8, lines 19-23).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify each Ohguchi's switch including the serial transfer line is a transfer line in accordance with a USB standard and an IEEE 1394 standard, in view of the teaching of Silverman's reference because this would provide an improved technique for effecting digital communications between digital devices and system using different communication protocols as taught by Silverman et al (column 4, lines 10-13).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-6209**. The examiner can normally be reached on MON-THU from 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reached on **703-305-4709**.

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kevin M. Nguyen Patent Examiner Art Unit 2674

KN June 3, 2004

> XIAO WU Primary Examiner

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